UNITED STATES PATENT AND TRADEMARK OFFICE

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ART UNIT	PAPER NUMBER
2145	

DATE MAILED: 04/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>06 February 2006</u>.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1-23</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>1-23</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on <u>04 October 2001</u> is/are: a)☒ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____.

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

Detailed Action

This office action is in response to the correspondence received on February 6, 2006.

Claim Objections

Claim 8 is objected to because of the following informalities: The sentences with

the phrase "the absence of that component from the;" are incomplete. It is believed that

the phrase should read, "the absence of that component from the topology;" Appropriate

correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Crockett et al (US Pat No: 5,504,861), hereafter referred to as Crockett.

1. With regards to claim 1, Crockett teaches a system for managing network

   components, including storage devices and digital data processors, comprising:

   a first component that maintains a first representation of a topology of the storage

   devices and digital data processors in the network and that generates an event

   notification indicative of a change to the topology with respect to the network; a

second component in communication with the first component the second

component maintaining a second representation of the topology and responding

to the event notification by accessing the first representation; determining a

discrepancy between the event notification and an attribute of any of the first and

second representations; selectively disregarding the event notification or

recovering the second representation from one or more attributes of the first

representation in response to determining the discrepancy (Crockett teaches a

design allowing for data shadowing to provide for data recovery. The design

features two hosts (Figure 4, elements 401 and 411, Crockett). The two hosts

are updated against one another so that both feature full recovery capabilities

(column 2, lines 58-62, Crockett). Plus, means for detection of errors (events)

are present and are capable of triggering synchronization between the primary

and secondary hosts (column 7, lines 34-44, Crockett). While Crockett does not

literally disclose the topology as being the data being stored, Crockett does teach

that data recovery is suitable for disaster recovery (column 2, line 63 – column 3,

line 39, Crockett). Official notice is hereby taken for it would have been obvious

to one skilled in the art, to have the disaster recovery information of Crockett's

design be topology information since, topology information is a form of disaster

recovery information).

2. With regards to claim 2, Crockett teaches the system wherein the network further

includes a plurality of hosts, each coupled with one or more storage devices over

the network; one or more agents each associated with one or more of the hosts,

each agent generating a scan identifying attributes of any of (i) the host with

which it is associated, (ii) one or more of the storage units to which that host is

coupled, and (iii) a relationship therebetween; and wherein the agents are in

communication coupling with the first component, wherein the agents transmit

the can to the first component (Crockett teaches a design allowing for data

shadowing to provide for data recovery. The design features two hosts (Figure 4,

elements 401 and 411, Crockett). The two hosts are updated against one

another so that both feature full recovery capabilities (column 2, lines 58-62,

Crockett). Plus, means are present by which to check and ensure that the data

being copied are correct (column 9, line 52 – column 10, line 9 and column 10,

line 54 – column 11, line 37, Crockett). In addition, since data is checked at each

host, it is inherent that agents/daemons are present within the design).

3. With regards to claim 3, Crockett teaches the system wherein the agents transmit

the scans to the first component asynchronously with respect to one another (In

Crockett's design, means are present by which to check and ensure (scan) that

the data being copied are correct (column 9, line 52 – column 10, line 9 and

column 10, line 54 – column 11, line 37, Crockett). In addition, since data is

checked at each host, it is inherent that agents/daemons are present within the

design).

4. With regards to claim 4, Crockett teaches the system wherein the first

representation comprises scans received from the one or more agents (In

Crockett's design, means are present by which to check and ensure (scan) that

the data being copied are correct (column 9, line 52 – column 10, line 9 and

column 10, line 54 – column 11, line 37, Crockett). In addition, since data is

checked at each host, it is inherent that agents/daemons are present within the

design).

5. With regards to claim 5, Crockett teaches the system wherein the hosts comprise

digital data processors and the agents execute on the host digital data

processors (Crockett's design features processors (column 3, lines 15-39,

Crockett). Plus, since data is checked at each host, it is inherent that

agents/daemons are present within the design).

6. With regards to claim 6, Crockett teaches the system wherein the network

comprises a first network, further comprising a manager digital data processor

that is coupled to the host digital data processors by via a second network,

wherein the first and second components execute in connection with the

manager digital data processor (Crockett's design features processors (column

3, lines 15-39, Crockett). The two hosts of Crockett's design are connected

(Figure 4, element 408, Crockett)).

7. With regards to claims 7 and 11, Crockett teaches the system further comprising functionality that recovers the second representation by performing at least one of the following operations: i) clearing the second representation and rebuilding that representation from attributes of the first representation; ii) comparing the first and second representations in whole or in part, and copying from the first representation to the second representation attributes missing from the latter, while any of deleting or marking as missing attributes in the second representation indicative of components present in the second representation but not in the first representation; and iii) copying from the first representation to the second representation one or more attributes indicative of any of (a) a component or relationships represented by an attribute in connection with which the discrepancy occurred, and (b) a component or relationship in a region a component or relationships represented by an attribute in connection with which the discrepancy occurred (Crockett teaches a design allowing for data shadowing to provide for data recovery. The design features two hosts (Figure 4, elements 401 and 411, Crockett). The two hosts are updated against one another so that both feature full recovery capabilities (column 2, lines 58-62, Crockett). Plus, means for detection of errors (events) are present and are capable of triggering synchronization between the primary and secondary hosts (column 7, lines 34-44, Crockett). Plus, means are present by which to check and ensure (scan) that the data being copied are correct (column 9, line 52 – column 10, line 9 and column 10, line 54 – column 11, line 37, Crockett). While Crockett does not

literally disclose the topology as being the data being stored, Crockett does teach

that data recovery is suitable for disaster recovery (column 2, line 63 – column 3,

line 39, Crockett). Official notice is hereby taken for it would have been obvious

to one skilled in the art, to have the disaster recovery information of Crockett's

design be topology information since, topology information is a form of disaster

recovery information).

8. With regards to claim 8, Crockett teaches a system for managing a network of

components, including storage devices and digital data processors, comprising:

a first component that maintains a first representation of a topology of the storage

devices and digital data processors in the network and that generates an event

notification indicative of a change to the topology with respect to the network; a

second component in communication with the first component, the second

component maintaining a second representation of the network and responding

to the event notification by: accessing the first representation; disregarding the

event notification in response to determining at least one of: i) the event

notification is indicative of addition of a new component to the network and an

attribute of the first representation is indicative of absence of that component; ii)

the event notification is indicative of addition of a relationship between

components of the topology and an attribute of the first representation is

indicative of absence of that relationship; iii) the event notification is indicative of

addition of a relationship between components of the topology and an attribute of

the second representation is indicative of the absence from the topology of one

of the components to that relationship; iv) the event notification is indicative of a

missing component of the topology and an attribute of the second representation

indicative of the absence of that component from the topology; v) the event

notification is indicative of a missing component of the topology and an attribute

of the second representation indicates representation of that component in the

second representation, but the absence of that component from the topology; vi)

the event notification is indicative of a missing relationship between components

of the topology and an attribute of the second representation indicative of

absence of that relationship in the second representation; or vii) the event

notification is indicative of a missing relationship in the topology and an attribute

of the second representation indicates inclusion of that relationship in the second

representation, but the absence of that component from the topology (Crockett

teaches a design allowing for data shadowing to provide for data recovery. The

design features two hosts (Figure 4, elements 401 and 411, Crockett). The two

hosts are updated against one another so that both feature full recovery

capabilities (column 2, lines 58-62, Crockett). Plus, means for detection of errors

(events) are present and are capable of triggering synchronization between the

primary and secondary hosts (column 7, lines 34-44, Crockett). Plus, means are

present by which to check and ensure (scan) that the data being copied are

correct (column 9, line 52 – column 10, line 9 and column 10, line 54 – column

11, line 37, Crockett). While Crockett does not literally disclose the topology as

being the data being stored, Crockett does teach that data recovery is suitable

for disaster recovery (column 2, line 63 – column 3, line 39, Crockett). Official

notice is hereby taken for it would have been obvious to one skilled in the art, to

have the disaster recovery information of Crockett's design be topology

information since, topology information is a form of disaster recovery

information).

9. With regards to claim 9, Crockett teaches a system for managing a network of

components, including storage devices and digital data processors, comprising:

a first component that maintains a first representation of a topology of the storage

devices and digital data processors in the network and that generates an event

notification indicative of a change to the topology with respect to the network; a

second component in communication with the first component, the second

element maintaining a second representation of the topology and responding to

the event notification by accessing the first representation; determining a

discrepancy between the event notification and an attribute of any of the first and

second representations; and selectively recovering the second representation

from one or more attributes of the first representation in response to the

determining at least one of: i) the event notification is indicative of addition of a

new component to the topology and an attribute of the first representation is

indicative of the presence of that component; ii) the event notification is indicative

of addition of a relationship between components of the topology and an attribute

of the second representation is indicative of the presence of that relationship; iii)

the event notification is indicative of modification of an attribute of a component

of the topology and an attribute of the second representation is indicative of the

absence from the topology of that component; or iv) the event notification is

indicative of modification of an attribute of a component of the topology and an

attribute of the second representation indicative of inclusion of that component in

the second representation but its absence from the topology (Crockett teaches a

design allowing for data shadowing to provide for data recovery. The design

features two hosts (Figure 4, elements 401 and 411, Crockett). The two hosts

are updated against one another so that both feature full recovery capabilities

(column 2, lines 58-62, Crockett). Plus, means for detection of errors (events)

are present and are capable of triggering synchronization between the primary

and secondary hosts (column 7, lines 34-44, Crockett). Plus, means are present

by which to check and ensure (scan) that the data being copied are correct

(column 9, line 52 – column 10, line 9 and column 10, line 54 – column 11, line

37, Crockett). While Crockett does not literally disclose the topology as being the

data being stored, Crockett does teach that data recovery is suitable for disaster

recovery (column 2, line 63 – column 3, line 39, Crockett). Official notice is

hereby taken for it would have been obvious to one skilled in the art, to have the

disaster recovery information of Crockett's design be topology information since,

topology information is a form of disaster recovery information).

10. With regards to claim 10, Crockett teaches a method of managing a network of

components, including storage devices and digital data processors, comprising:

maintaining a first representation of a topology of the storage devices and digital

data processors in the network and generating event notification indicative of a

change to the topology with respect to the network; maintaining a second

representation of the topology and responding to the event notification by:

accessing the first representation; determining a discrepancy between the event

notification and an attribute of any of the first and second representations; and

selectively disregarding the event notification or recovering the second

representation from one or more attributes of the first representation in response

to determining the discrepancy (Crockett teaches a design allowing for data

shadowing to provide for data recovery. The design features two hosts (Figure 4,

elements 401 and 411, Crockett). The two hosts are updated against one

another so that both feature full recovery capabilities (column 2, lines 58-62,

Crockett). Plus, means for detection of errors (events) are present and are

capable of triggering synchronization between the primary and secondary hosts

(column 7, lines 34-44, Crockett). Plus, means are present by which to check

and ensure (scan) that the data being copied are correct (column 9, line 52 –

column 10, line 9 and column 10, line 54 – column 11, line 37, Crockett). While

Crockett does not literally disclose the topology as being the data being stored,

Crockett does teach that data recovery is suitable for disaster recovery (column

2, line 63 – column 3, line 39, Crockett). Official notice is hereby taken for it

would have been obvious to one skilled in the art, to have the disaster recovery

information of Crockett's design be topology information since, topology

information is a form of disaster recovery information).

11. With regards to claim 12, Crockett teaches the method wherein determining the

discrepancy that results in selectively disregarding the event notification

comprises determining an event notification indicative of addition of a new

component to the topology and an attribute of the first representation indicative of

absence of the new component (Means are present in Crockett's design by

which to check and ensure (scan) that the data being copied are correct (column

9, line 52 – column 10, line 9 and column 10, line 54 – column 11, line 37,

Crockett)).

12. With regards to claim 13, Crockett teaches the method further comprising:

determining an event notification indicative of addition of a new component to the

topology and an attribute of the first representation indicative of absence of the

new component; and determining whether the new component is in the second

representation in response to determining that the new component is absent from

the first representation; and; updating the second representation to indicate the

component's status is suspect in response to determining that the new

component is in the second representation Crockett teaches a design allowing

for data shadowing to provide for data recovery. The design features two hosts

(Figure 4, elements 401 and 411, Crockett). The two hosts are updated against

one another so that both feature full recovery capabilities (column 2, lines 58-62,

Crockett). Plus, means for detection of errors (events) are present and are

capable of triggering synchronization between the primary and secondary hosts

(column 7, lines 34-44, Crockett). Plus, means are present by which to check

and ensure (scan) that the data being copied are correct (column 9, line 52 –

column 10, line 9 and column 10, line 54 – column 11, line 37, Crockett)).

13. With regards to claim 14, Crockett teaches the method wherein determining the

discrepancy that results in performing the recovery operation on the second

representation comprises determining an event notification indicative of addition

of a new component to the topology and an attribute of the first representation

indicative of the presence of the new component (Means for detection of errors

(events) are present and are capable of triggering synchronization between the

primary and secondary hosts (column 7, lines 34-44, Crockett). Plus, means are

present by which to check and ensure (scan) that the data being copied are

correct (column 9, line 52 – column 10, line 9 and column 10, line 54 – column

11, line 37, Crockett)).

14. With regards to claim 15, Crockett teaches the method wherein determining the

discrepancy that results in selectively disregarding the event notification

comprises determining an event notification indicative of addition of a relationship

between components of the topology and an attribute of the first representation

indicative of absence of the relationship (Means for detection of errors (events)

are present and are capable of triggering synchronization between the primary

and secondary hosts (column 7, lines 34-44, Crockett). Plus, means are present

by which to check and ensure (scan) that the data being copied are correct

(column 9, line 52 – column 10, line 9 and column 10, line 54 – column 11, line

37, Crockett). In addition, since means are present by which to make

notifications, official notice is hereby taken for it is obvious to one skilled in the art

to disregard a notification).

15. With regards to claim 16, Crockett teaches the method wherein determining the

discrepancy that results in performing the recovery operation on the second

representations comprises determining an event notification indicative of addition

of a relationship between components of the topology and an attribute of the

second representation indicative of the presence of that relationship (Means for

detection of errors (events) are present and are capable of triggering

synchronization between the primary and secondary hosts (column 7, lines 34-

44, Crockett). Plus, means are present by which to check and ensure (scan) that

the data being copied are correct (column 9, line 52 – column 10, line 9 and

column 10, line 54 – column 11, line 37, Crockett)).

16. With regards to claim17, Crockett teaches the method wherein determining the discrepancy that results in selectively disregarding the event notification comprises determining an event notification indicative of addition of a relationship between components of the topology and an attribute of the second representation indicative of the absence from the topology of one of the components to that relationship (Means for detection of errors (events) are present and are capable of triggering synchronization between the primary and secondary hosts (column 7, lines 34-44, Crockett). Plus, means are present by which to check and ensure (scan) that the data being copied are correct (column 9, line 52 – column 10, line 9 and column 10, line 54 – column 11, line 37, Crockett)).

17. With regards to claim 18, Crockett teaches the method wherein determining the discrepancy that results in performing the recovery operation on the second representations comprises determining an event notification indicative of modification of an attribute of a component of the topology and an attribute of the second representation indicative of the absence from the topology of that component (Means for detection of errors (events) are present and are capable of triggering synchronization between the primary and secondary hosts (column 7, lines 34-44, Crockett). Plus, means are present by which to check and ensure (scan) that the data being copied are correct (column 9, line 52 – column 10, line 9 and column 10, line 54 – column 11, line 37, Crockett)).

18. With regards to claim 19, Crockett teaches the method wherein determining the

discrepancy that results in performing the recovery operation on the second

representation comprises determining an event notification indicative of

modification of an attribute of a component of the topology and an attribute of the

second representation indicating presence of representation of that component in

the second representation but its absence from the topology (Means for detection

of errors (events) are present and are capable of triggering synchronization

between the primary and secondary hosts (column 7, lines 34-44, Crockett).

Plus, means are present by which to check and ensure (scan) that the data being

copied are correct (column 9, line 52 – column 10, line 9 and column 10, line 54

– column 11, line 37, Crockett)).

19. With regards to claim 20, Crockett teaches the method wherein determining the

discrepancy that results in selectively disregarding the event notification

comprises determining an event notification indicative of a missing component of

the topology and an attribute of the second representation the absence of that

component from the topology (Means for detection of errors (events) are present

and are capable of triggering synchronization between the primary and

secondary hosts (column 7, lines 34-44, Crockett). Plus, means are present by

which to check and ensure (scan) that the data being copied are correct (column

9, line 52 – column 10, line 9 and column 10, line 54 – column 11, line 37,

Crockett)).

20. With regards to claim 21, Crockett teaches the method wherein determining the

discrepancy that results in selectively disregarding the event notification

comprises determining an event notification indicative of a missing component of

the topology and an attribute of the second representation indicates inclusion of

that component in the second representation, but the absence of that component

from the topology (Means for detection of errors (events) are present and are

capable of triggering synchronization between the primary and secondary hosts

(column 7, lines 34-44, Crockett). Plus, means are present by which to check

and ensure (scan) that the data being copied are correct (column 9, line 52 –

column 10, line 9 and column 10, line 54 – column 11, line 37, Crockett)).

21. With regards to claim 22, Crockett teaches the method wherein determining the

discrepancy that results in selectively disregarding the event notification

comprises determining an event notification indicative of a missing relationship

between components of the topology and an attribute of the second

representation indicative of absence of that relationship in the second

representation (Means for detection of errors (events) are present and are

capable of triggering synchronization between the primary and secondary hosts

(column 7, lines 34-44, Crockett). Plus, means are present by which to check

and ensure (scan) that the data being copied are correct (column 9, line 52 –

column 10, line 9 and column 10, line 54 – column 11, line 37, Crockett)).

22. With regards to claim 23, Crockett teaches the method wherein determining the

discrepancy that results in selectively disregarding the event notification

comprises determining an event notification indicative of a missing relationship in

the topology and an attribute of the second representation indicates inclusion of

that relationship in the second representation, but the absence of that component

from the topology (Means for detection of errors (events) are present and are

capable of triggering synchronization between the primary and secondary hosts

(column 7, lines 34-44, Crockett). Plus, means are present by which to check

and ensure (scan) that the data being copied are correct (column 9, line 52 –

column 10, line 9 and column 10, line 54 – column 11, line 37, Crockett)).

Response to Remarks

The amendment received on February 6, 2006 has been carefully examined but

is not deemed fully persuasive. In lieu of the claim amendments, the 102-type rejection

has been changed to a 103-type rejection. The following is the examiner's response to

the main points of contention addressed within the remarks portion of the amendment.

The first point of contention involves the newly amended content of topology

information being maintained within a first and second device. Crockett teaches a

design allowing for data shadowing providing for data recovery. The design features

two hosts (Figure 4, elements 401 and 411, Crockett). The two hosts are updated

against one another so that both feature full recovery capabilities (column 2, lines 58-

62, Crockett). While Crockett does not literally disclose the topology as being the data

being stored, Crockett does teach that data recovery is suitable for disaster recovery

(column 2, line 63 – column 3, line 39, Crockett). Official notice is hereby taken for it

would have been obvious to one skilled in the art, to have the disaster recovery

information of Crockett's design be topology information since, topology information is a

form of disaster recovery information.

Another point of contention involves the comparison of the two copies of the

topologies to detect discrepancies. In Crockett's design, the two hosts are updated

against one another so that both feature full recovery capabilities (column 2, lines 58-

62, Crockett). Means for detection of errors (events) are present and are capable of

triggering synchronization between the primary and secondary hosts (column 7, lines

34-44, Crockett). In addition, means are present by which to check and ensure (scan)

that the data being copied are correct (column 9, line 52 – column 10, line 9 and column

10, line 54 – column 11, line 37, Crockett).

An additional point of contention involves the prior art's relevance. The

applicant's representative indicates that the Crockett prior art is not in the same field of

endeavor as the claimed invention. The examiner disagrees, both the prior art and the

claimed invention deal with maintaining copies of data and comparing the copies for

discrepancies.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in

this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Azizul Choudhury whose telephone number is (571)

272-3909. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jason Cardone can be reached on (571) 272-3933. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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Business Center (EBC) at 866-217-9197 (toll-free).

AC

ZARNI MAUNG
SUPERVISORY PATENT EXAMINER